

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-86-110
Relating to Certification of New Heavy-Duty Motor Vehicle Engines

MITSUBISHI MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That the following Mitsubishi Motors Corporation 1990 model-year diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 8,500 pounds:

<u>Engine Family</u>	<u>Displacement</u> <u>Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems</u>
LMM0201FAA3	3.3 (201)	Engine Modification Direct Injection Turbocharger Charge Air Cooler

Engine models and codes are listed on attachments.

The following are the emission standards for this engine family:

<u>Hydrocarbons</u> <u>gm/bhp-hr</u>	<u>Carbon</u> <u>Monoxide</u> <u>gm/bhp-hr</u>	<u>Nitrogen Oxides</u> <u>gm/bhp-hr</u>	<u>Particulates</u> <u>gm/bhp-hr</u>
1.3	15.5	6.0	0.60

The following are the certification emission values for this engine family:

<u>Engine Family</u>	<u>Hydrocarbons</u> <u>gm/bhp-hr</u>	<u>Carbon</u> <u>Monoxide</u> <u>gm/bhp-hr</u>	<u>Nitrogen Oxides</u> <u>gm/bhp-hr</u>	<u>Particulates</u> <u>gm/bhp-hr</u>
LMM0201FAA3	1.0	3.2	5.7	0.56

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Health and Safety Code Section 43205.5).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

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EXECUTIVE ORDER A-86-110
(Page 2 of 2)

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this 6th day of July, 1989.


K. D. Drachand, Chief
Mobile Source Division

1990 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
 HEAVY-DUTY DIESEL ENGINES

Manufacturer Mitsubishi Motors Corporation Engine Family LMM0201FAA3
 Liter (CID) 3.3 (201) Eng. Type Direct Injection Aftercooled Diesel
 Emission Control Sys. and (Special Features) Engine Modification (DID, TC & IC)

Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP at RPM	Fuel Rate mm ³ /stroke (lbs/Hr)	Maximum Rated Torque at RPM	Fuel Rate mm ³ /stroke (lbs/Hr)
4D310AT2-A	ME016770 (DIESEL KIKI)	ME016655 (DIESEL KIKI)	127 hp @ 3500 rpm	68 mm ³ /stroke 53.2 lbs/hr	214 ft-lb @ 2000 rpm	67 mm ³ /stroke 30.0 lbs/hr
4D310AT2-B	ME016771 (DIESEL KIKI)	ME016655 (DIESEL KIKI)	127 hp @ 3500 rpm	68 mm ³ /stroke 53.2 lbs/hr	214 ft-lb @ 2000 rpm	67 mm ³ /stroke 30.0 lbs/hr

Date of Issue _____ Revisions: _____